

Rangeland Health Evaluation Summary Worksheet

NM-RFO-RHA-2012-0004

Part 1. Area of Interest Documentation

Observation Date: 8/20/2012 **Fiscal Year:** 2012 **RHA Type:** Grazing Unit 63073, Zuefeldt Arroyo
State: New Mexico **Field Office:** Roswell Field Office **Legal Location:** T8S, R19E, Sec. 18 SESW
Watershed Name: **Major Land Resource Area:** CP-3
Geographic Work Area: **Ecological Range Site:** Limestone Hills
Pasture Name: West **Study Name and #:** ldsu-125
Observer(s): Emily Peterson **Size of Evaluation Area:** **Photos Taken** ☒

Soil/Site Verification

Map Unit Name: 14, Deama-Rock outcrop association, very steep

Parent Material: alluvium and residuum weathered from limestone

Soils Series: Deama

Surface Texture: very cobbly loam

Depth: Very Shallow, <10"

Topographic Position: uplands

Avg. Annual Precip: 12.75 **Aspect:**

Recent Weather: Drought **Elevation:**

List Diagnostic horizons in profile and depth

- A11 - 0 - 2 in, dark grayish brown cobbly loam, 30% cobblestones, stones and gravel, moderately calcareous
- A12ca - 2 - 8 in, dark grayish brown cobbly light clay loam, 35% cobblestones, pebbles, and stones coated with lime on all surfaces, moderately calcareous
- Cca - 8 - 15 in, dark brown stony light clay loam, 45% cobblestones, pebbles, and stones coated with lime on all surfaces, strongly calcareous
- R - 15 - in, fractured limestone

Soils Series Description:

The Deama series consists of very shallow and shallow, well drained soils. These soils formed in cobbly residual materials on limestone hills. Permeability is moderate, and available water capacity is 1.5 to 2 inches.

Recent Weather Additional Notes:

Recent Weather Additional Notes:

No additional Comments

Wildlife and Livestock Description:

No additional Comments

Off Site Influence Description:

No additional Comments

Additional Notes:

No additional Comments

Part 2. Indicator Rating

		Departure from Ecological Site Description/ Ecological Reference Area(s)				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S,H	1. Rills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i>						
S,H	2. Water Flow Patterns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i>						
S,H	3. Pedestals and/or Terracettes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i>						
S,H	4. Bare Ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i> percentage of bare ground was less than 25%						
S,H	5. Gullies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i>						
S	6. Wind-Scoured, Blowouts, and/or Deposition Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i>						
H	7. Litter Movement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i> litter movement was none to slight						
S,H,B	8. Soil Surface Resistance to Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i> as expected for soils with low water holding capacity						
S,H,B	9. Soils Surface Loss or Degradation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i>						
H	10. Plant Community Composition and Distributio	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i>						
S,H,B	11. Compaction Layer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i> plant cover was adequate for site protection						
B	12. Functional/Structural Groups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i>						
B	13. Plant Mortality/Decadence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Comments:</i> less than 20% plant mortality for the site						

H,B	14. Litter Amount	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments: <i>within the expected 6-10%</i>						
B	15. Annual Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments: <i>there were many plants with inflorescence</i>						
B	16. Invasive Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments:						
B	17. Reproductive Capability of Perennial Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments:						

Part 2. Indicator Rating

		Departure from Ecological Site Description/ Ecological Reference Area(s)				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
B	18. Wildlife Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments: <i>mule deer, road runner</i>						
B	19. Wildlife Populations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments:						
B	20. Special Status Species Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments:						
B	21. Special Status Species Populations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments:						

Part 3. Summary

A. Indicator Summary-Each of the indicators are associated with the one or more of the attributes below.
An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attributes		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	Total Attributes
S	Soil/Site Stability (Indicators 1-6, 8, 9 11)	0	0	0	0	9	9
H	Hydrologic Function (Indicators 1-5, 7-11 14)	0	0	0	0	11	11
B	Biotic Integrity (Indicators 8-9, 11-21)	0	0	0	0	13	13

Part 3. Summary

B. Attribute Summary - In this table, the Extreme and Moderate to Extreme columns in the table above are merged to form the "Does Not Meet" column, Moderate becomes "May Need More Info". Slight to Moderate and None to Slight merge to form the "Meets" columns. Values from the table above are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Does Not Meet	May Need More Info.	Meets
Soil/Site Stability Rationale: No additional Comments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hydrologic Function Rationale: No additional Comments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Biotic Integrity Rationale: No additional Comments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Overall Rangeland Health Assessment:	Does Not Meet	May Need More Info.	Meets
No additional Comments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

